# **CERTIFICATE OF ANALYSIS**

Certified Organic CBD Tincture - Natural **PRODUCT NAME:** 

**PRODUCT STRENGTH:** 1350 mg FILL LOT:

NA

**TINCTURE BATCH:** 

21033A

**BEST BY DATE: HEMP EXTRACT LOT**  08/02/2022

B1014-003

# \*Click on the links to view third-party reports\*

## Physical Atttributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	Characteristic - Olive and hemp	PASS
Appearance	SOP-100	Golden to Amber oil in brown glass bottle with dropper	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

## Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	SOP-111	1350-1687.5 mg CBD LOQ**: 10 PPM† (0.001%)	1362.8 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111 for Tinctures, Oregon Action limits		ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOQ	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

<sup>\* \*</sup>Level of Quantitation, † Parts Per Million

Kei Horikawa Quality Certified

02/09/2021

Date

Quality Control Manager



certificate ID **0KR42** 

### B1014-003

sample ID 24964 retention ID 24964

analysis: 10/22/2020 12:01:11 PM

total cannabinoids

1390.6mg

per 30 mL

THC‡

CBD‡ 1362.8m

**This Product** Has Been Tested and Complies with 7USC1639o(1)

**7USC1639 Certificate of Analysis** 

Stillwater Laboratories

7USC1639 Infused



order 8689

received 10/22/2020 12:01:11 PM

test tag

sample wgt 15.0 g

Inspection MSP-7.5.1.2

DESCRIPTION: Oil sample (15.00g) received in a client-labeled bottle, by commercial courier. Labeled 24964.

Potency per 30 mL	MSP-7.5.1.4	LOD LOQ (95%Cl k=2)	
tetrahydrocannabolic acid (THCa) Δ9-tetrahydrocannabinol (Δ9 THC) Δ8-tetrahydrocannabinol (Δ8 THC) tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa) cannabidiolic (CBD) cannabidivarin (CBDv) cannabigerolic acid (CBGa) cannabigerol (CBG) cannabinol (CBN) cannabichromene (CBC)	ND ND ND ND ND 1362.8mg 5.6mg ND 22.2mg ND	0.16   0.49   ±0.49 mg 0.15   0.46   ±0.46 mg 0.21   0.62   ±0.62 mg 0.17   0.51   ±0.51 mg 0.14   0.42   ±0.42 mg 0.16   0.48   ±23.33 mg 0.16   0.48   ±0.58 mg 0.14   0.43   ±0.43 mg 0.17   0.52   ±0.90 mg 0.09   0.26   ±0.26 mg 0.16   0.48   ±0.48 mg	

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit . LOQ = quantitation limit

# = decarbed INT = not to	ested INL =	no limit, ND = n	ot detected, LOD = detection	on limit , LC	JQ = quantitati	on limit					
Microbial M	ISP-7.5.1.	10 limit	Metals M	SP-7.5.1.1	1 limit	Pesticides	MSP-7.5.1.	8 limit	Pesticides	MSP-7.5.1.	8 limit
			Arsenic	PASS	1500 ppb	Daminozide	PASS	0.0 ppm	Piperonylbutoxide	PASS	8.0 ppm
			Cadmium	PASS	500 ppb	Dichlorvos	PASS	0.0 ppm	Prallethrin	PASS	0.4 ppm
			Lead	PASS	500 ppb	Diazinon	PASS	0.2 ppm	Propiconazole	PASS	20.0 ppm
Ochratoxin A	PASS	20 ppb	Mercury	PASS	300 ppb	Dimethoate	PASS	0.0 ppm	Propoxur	PASS	0.0 ppm
Aflatoxin		20 ppb				Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
				<i>y</i>		Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents	SP-7.5.1.7	7 limit	Pesticides	ISP-7.5.1.	8 limit	Fenpyroximate	PASS	2.0 ppm	Spinetoram	PASS	3.0 ppm
Acetone	PASS	5000 ppm	Abamectin	PASS	0.3 ppm	Fipronil	PASS	0.0 ppm	Spinosad	PASS	3.0 ppm
Acetonitrile	PASS	410 ppm	Acephate	PASS	5.0 ppm	Flonicamid	PASS	2.0 ppm	Spiromesifen	PASS	12.0 ppm
Benzene	PASS	0 ppm	Acequinocyl	PASS	4.0 ppm	Fludioxonil	PASS	30.0 ppm	Spirotetramat	PASS	13.0 ppm
Butane	PASS	5000 ppm	Acetamiprid	PASS	5.0 ppm	Hexythiazox	PASS	2.0 ppm	Spiroxamine	PASS	0.0 ppm
Chloroform	PASS	0 ppm	Aldicarb	PASS	0.0 ppm	Imazalil	PASS	0.0 ppm	Tebuconazole	PASS	2.0 ppm
Cyclohexane	PASS	0 ppm	Azoxystrobin	PASS	40.0 ppm	Imidacloprid	PASS	3.0 ppm	Thiacloprid	PASS	0.1 ppm
Ethanol	PASS	10000 ppm	Bifenazate	PASS	5.0 ppm	Malathion	PASS	5.0 ppm	Thiamethoxam	PASS	4.5 ppm
Heptane	PASS	5000 ppm	Bifenthrin	PASS	0.5 ppm	Metalaxyl		15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
Hexane	PASS	290 ppm	Boscalid	PASS	10.0 ppm	Methiocarb	PASS	0.0 ppm			
Isopropyl alcohol	PASS	5000 ppm	Carbaryl	PASS	0.5 ppm	Methomyl		0.1 ppm			
Methanol	PASS	3000 ppm	Carbofuran	PASS	0.0 ppm	Methyl parathion		0.0 ppm	INSTRUMENTS		
Pentane	PASS	5000 ppm	Chloantraniliprole	PASS	40.0 ppm	Mevinphos	PASS	0.0 ppm	potency: HPLC (LC2030C-UV)		12/9(
Propane	PASS	5000 ppm	Chlorfenapyr	PASS	0.0 ppm	Myclobutanil	PASS	9.0 ppm	terpenes: GCMS (C		

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

0.0 ppm

0.5 ppm

0.0 ppm

1.0 ppm

1.0 ppm

Certified by

Toluene PASS

Xylenes PASS

890 ppm

2170 ppm

Justin M Johnston Deputy Director

Stillwater Laboratories Inc. MT License L00001, 7, 8 6073 US93N Suite 5 Olney MT 59927 406-881-2019

Chlorpyrifos PASS

Clofentezine PASS

Coumaphos PASS

Cypermethrin PASS

Cyfluthrin PASS

10/27/2020 4:45 PM

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0.2 ppm

0.0 ppm

20.0 ppm

0.2 ppm

Naled PASS 0.5 ppm

**PASS** 

PASS

PASS

Oxamyl

Phosmet PASS

Paclobutrazol

Permethrin





https://portal.a2la.org/scopepdf/4961-01.pdf

solvents: GCMS (QP2020/HS20)

pesticides: LCMSMS (LC8060)

metals: ICPMS (ICPMS-2030)

mycotoxins: LCMSMS (LC8060)

microbial: qPCR (AriaMx) and plating











https://portal.a2la.org/scopepdf/4961-01.pdf

#### 21033A

#### Sample Handling

test ID sample date 2/5/21 1:53 PM order 9752 labID 1BF50 weight

source

Methods	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.1	AriaMx/Hardy
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.11	ICPMS2030

tincture



Potency % estimated error % estimated error % estimated error % estimated error % estimated error

potency not tested terpenes not tested / not required

Solvents MT limit 1BF50 LOQ Pesticides (MT) MT limit 1BF50 LOQ Pesticides (other) 1BF50 LOQ

pesticides not tested / not required not tested / not required

Toxic Metals MT limit 1BF50 LOG

metals not tested / not required

 Microbial
 MT limit
 1BF50
 LOQ

 E. coli
 10 CFU
 0 CFU
 <10 CFU/g</td>

 Salmonella sp.
 10 CFU
 0 CFU
 <10 CFU/g</td>

 molds
 10000 CFU
 0 CFU
 <10k CFU/g</td>

Comments

Certified by:

Justin M Johnston Deputy Director 6073 US93N, Olney MT 59927 406-881-2019 rdb@stwlabs.com

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<sup>•</sup> All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid]\_HPLC x volume\_dilution/Mdy. Terpene concentration is calcuated from the equation: [terpene] = (terpene mass)\_GCMS / mdy. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX\_total = 0.877 x XXXa + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula  $s_{\rm g}^2 = \sum (\partial f/\partial i)^2 s_{\rm l}^2$  where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration)  $\pm$  to the total contributor of the standard standard from the equation: (concentration)